

Week 21  
n#788086

## 6-2 Rates

Unit Rate

rate that is simplified so that the denominator is 1


Ex.1 Find the Unit Rate

Sam ran 24 miles in 3 hours.

$$\frac{24 \text{ miles}}{3 \text{ hours}} \left( \div 3 \right) = \frac{8 \text{ miles}}{1 \text{ hour}}$$

because we want denominator of 1

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Ex 2  
Find the Unit Rate

It costs \$2 for 6 oranges.  
Write the Fraction.

$$\frac{\$2}{6 \text{ oranges}}$$

Now Solve for the unit rate

$$\frac{\$2}{6} \div 6 = \frac{\$1.33}{1 \text{ orange}} = \frac{\$33}{100 \text{ orange}}$$

How much is it for 5 oranges

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because \$

$$6 \overline{) 20} \begin{array}{r} \underline{-18} \\ 20 \\ \underline{-18} \\ 20 \end{array}$$

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6-2 Rates

Unit Rate

How much is it for 5 oranges

$$\begin{array}{r} \$0.33 \times 5 = \$1.65 \\ \hline \text{1 orange} \quad 5 \quad \text{5 oranges} \end{array}$$

$$\begin{array}{r} 33 \\ \times 5 \\ \hline 165 \end{array}$$

How many oranges can I buy for \$33?

$$\begin{array}{r} \$0.33 \times 100 = \$33 \\ \hline \text{1 Orange} \quad 100 \quad \text{100 oranges} \end{array}$$

$$\begin{array}{r} 33 \overline{) 33.00} \\ \underline{33} \phantom{00} \\ 00 \phantom{00} \\ \underline{00} \phantom{00} \\ 00 \phantom{00} \\ \underline{00} \phantom{00} \\ 00 \phantom{00} \end{array}$$

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